



# **BELAR ELECTRONICS LABORATORY, INC.**

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## **Belar AM Loop Antennas**



BELAR Shielded Loop Antennas are recommended when excessive electrical interference exists, or in the presence of an interfering station.

The basic design of a loop receiving antenna reduces electrostatic noise, and by using the natural directional receiving pattern, off-axis interference from other stations can be minimized by rotating the antenna.

### **SPECIFICATIONS**

#### **Model LP-1 Shielded Loop Antenna**

|                                        |                                |
|----------------------------------------|--------------------------------|
| Frequency Range.....                   | 530 kHz to 1710 kHz in 3 bands |
| • <i>NOTE: Specify Receiving Band:</i> |                                |
| ○ <i>Low</i> (530-960kHz)              |                                |
| ○ <i>Mid</i> (970-1340kHz)             |                                |
| ○ <i>High</i> (1350-1710kHz)           |                                |
| ○ <i>Wide band</i> (530kHz to 1710kHz) |                                |
| Diameter .....                         | 32"                            |
| Mounting.....                          | 1/2" NPT                       |
| Connector .....                        | BNC                            |
| Attenuation.....                       | 30 dB                          |
| Permissible Wind Load .....            | 150 mph                        |
|                                        | 100 mph with 3/4" ice          |
| Net Weight.....                        | 3 ½lbs                         |
| Shipping Weight .....                  | 7 lbs                          |
| Shipping Carton Size .....             | 36"x36"x2"                     |

#### **Model LP-1A Shielded Loop Antenna (Amplified)**

Specifications as above, except that internal amplifier provides 30 dB gain for unity output.

NOTE: Sharply Tuned for a Specified Frequency or Untuned for Wideband Reception

+12 to +15 vdc required. (Belar RFA-2 RF Amplifiers can be simply modified to provide the voltage source)

**OPTION 01:** External "Phantom" Power Supply for LP-1A (not needed when LP-1A is used with RFA-2 or AMDA-1)